

| L<br>Number | Hits | Search Text   | DB   | Time stamp          |
|-------------|------|---|--|---------------------|
| 4           | 268  | "spherical aberration" same defocus\$4  | USPAT  | 2004/02/17<br>10:31 |
| 5           | 165  | "spherical aberration" with defocus\$4  | USPAT  | 2004/02/17<br>10:31 |
| 6           | 52   | "spherical aberration" with defocus\$4 with (reduc\$4 eliminat\$4 compensat\$4 correct\$4)  | USPAT  | 2004/02/17<br>10:35 |
| 7           | 10   | ("spherical aberration" with defocus\$4 with (reduc\$4 eliminat\$4 compensat\$4 correct\$4)) and 369/\$7.cccls.   | USPAT  | 2004/02/17<br>11:35 |
| 8           | 200  | ((wave\$1length frequency) adj selective) wavelength\$1selective) with ((phase diffract\$4) near3 (grating structure))  | USPAT  | 2004/02/17<br>10:42 |
| 9           | 3    | ((((wave\$1length frequency) adj selective) wavelength\$1selective) with ((phase diffract\$4) near3 (grating structure))) and 369/\$7.cccls.  | USPAT  | 2004/02/17<br>10:44 |
| 10          | 4    | ((((wave\$1length frequency) adj selective) wavelength\$1selective) with ((phase diffract\$4) near3 (grating structure plate))) and 369/\$7.cccls.  | USPAT  | 2004/02/17<br>10:44 |
| 11          | 12   | ("spherical aberration" with (reduc\$4 eliminat\$4 compensat\$4 correct\$4)) and ((phase diffract\$4) near3 (grating plate structure)) same (out\$4 with (light \$4beam\$1 ray area))) and defocus\$4 and 369/\$7.cccls.                    | USPAT  | 2004/02/17<br>12:11 |
| 12          | 1    | "5661711".PN.   | USPAT  | 2004/02/17<br>12:12 |
| 13          | 1    | "5661711".PN.   | USPAT  | 2004/02/17<br>12:13 |
| 14          | 2    | 6198714.URPN.   | USPAT  | 2004/02/17<br>12:13 |
| 15          | 4    | 6091691.URPN.   | USPAT  | 2004/02/17<br>12:15 |
| -           | 1207 | (sub adj beam) sub\$1beam   | USPAT  | 2004/02/11<br>09:00 |
| -           | 275  | ((sub adj beam) sub\$1beam) and (((multiple different second\$3 plural\$3) near3 (wave\$1length wave\$1lengths)) (cd same dvd))   | USPAT  | 2004/01/29<br>12:35 |
| -           | 33   | ((sub adj beam) sub\$1beam) and (((multiple different second\$3 plural\$3) near3 (wave\$1length wave\$1lengths)) (cd same dvd)) and (diffract\$3 grating (phase adj structure)) and ((spherical wave\$1front) near3 (aberration deviation)) | USPAT  | 2004/01/29<br>14:17 |
| -           | 175  | Yoo-Jang-Hoon.in.   | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2004/01/29<br>14:17 |
| -           | 138  | Yoo-Jang-Hoon.in. and (optical adj pick\$1up)   | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2004/01/29<br>14:21 |
| -           | 9    | Yoo-Jang-Hoon.in. and (optical adj pick\$1up) and (annular adj lens)  | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2004/01/29<br>14:27 |
| -           | 0    | Yoo-Jang-Hoon.in. and (sub\$1beam (sub adj beam))   | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2004/01/29<br>14:24 |

|  |      |  |   |                  |
|--|------|--|---|------------------|
|  | 44   | Tachibana-Akihiro.in.  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/01/29 14:27 |
|  | 0    | Tachibana-Akihiro.in. and (sub\$1beam sub\$1beams (sub adj beam))  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/01/29 14:28 |
|  | 0    | Tachibana-Akihiro.in. and (sub\$1beam sub\$1beams (sub adj beam) ((three\$1beam (three adj beam) adj method)))   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/01/29 14:28 |
|  | 24   | Tachibana-Akihiro.in. and (optical adj pick\$1up)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/01/29 14:35 |
|  | 3710 | (DeVries).in   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/01/29 14:42 |
|  | 0    | (DeVries-Jorrit).in  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/01/29 14:43 |
|  | 3710 | (DeVries).in and philips.as.   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/01/29 14:44 |
|  | 3710 | (DeVries).in and philips.as. and (optical adj head)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/01/29 14:44 |
|  | 3710 | (DeVries).in and philips.as. and (optical adj head) and "globally approximates"  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/02/12 10:15 |
|  | 3    | (optical adj head) and "globally approximates"   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/01/29 14:45 |
|  | 854  | ((diffract\$3 phase) adj (grating structure)) and ((spherical wave\$1front "wave front") with (aberration deviation)) and ((plural\$3 different two second\$3) with (wave\$1length wave\$1lengths (wave adj length) laser ((light radiation) with (source emit\$4)) (disc disk ((storage record\$3 information) adj2 (medium carrier record))))  | USPAT                                       | 2004/02/11 09:18 |
|  | 168  | ((diffract\$3 phase) adj (grating structure)) same ((spherical wave\$1front "wave front") with (aberration deviation)) and ((plural\$3 different two second\$3) with (wave\$1length wave\$1lengths (wave adj length) laser ((light radiation) with (source emit\$4)) (disc disk ((storage record\$3 information) adj2 (medium carrier record)))) | USPAT                                       | 2004/02/11 12:13 |

|   |  |        |  |                                 |                              |
|---|--|--------|--|---------------------------------|------------------------------|
| - |  | 77     | ((diffract\$3 phase) adj (grating structure)) same ((spherical wave\$1front "wave front") with (aberration deviation) with (correct\$4 reduc\$5 fix\$3 compensat\$4 balanc\$3)) and ((plural\$3 different two second\$3) with (wave\$1length wave\$1lengths (wave adj length) laser ((light radiation) with (source emit\$4)) (disc disk ((storage record\$3 information) adj2 (medium carrier record))))  | USPAT                           | 2004/02/11<br>12:27          |
| - |  | 55     | ((diffract\$3 phase) adj (grating structure)) same ((spherical wave\$1front "wave front") with (aberration deviation) with (correct\$4 reduc\$5 fix\$3 compensat\$4 balanc\$3)) and ((plural\$3 different two second\$3) with (wave\$1length wave\$1lengths (wave adj length) laser ((light radiation) with (source emit\$4)) (disc disk ((storage record\$3 information) adj2 (medium carrier record)))) and (369/\$7 359/\$7).ccls.  | USPAT                           | 2004/02/11<br>18:20          |
| - |  | 12     | katayama-ryuichi.in.   | USPAT                           | 2004/02/11<br>17:54          |
| - |  | 252892 | cd\$4 dvd\$4 (((record information) with (carrier medium)) disc disk) and optical)   | EPO; JPO;                       | 2004/02/11                   |
| - |  | 1302   | (cd\$4 dvd\$4 (((record information) with (carrier medium)) disc disk) and optical) ) and ((intensity light) same distribution)  | DERWENT<br>EPO; JPO;<br>DERWENT | 18:05<br>2004/02/11<br>18:06 |
| - |  | 23     | (cd\$4 dvd\$4 (((record information) with (carrier medium)) disc disk) and optical) ) and ((intensity light) same distribution) and ((spherical wave\$1front (wave adj front)) with (aberration deviat\$3))  | EPO; JPO;<br>DERWENT            | 2004/02/11<br>18:07          |
| - |  | 23     | ((diffract\$3 phase) adj (grating structure)) same ((spherical wave\$1front "wave front") with (aberration deviation) with (correct\$4 reduc\$5 fix\$3 compensat\$4 balanc\$3)) and ((plural\$3 different two second\$3 dual) with (wave\$1length wave\$1lengths (wave adj length) laser ((light radiation) with (source emit\$4)) (disc disk ((storage record\$3 information) adj2 (medium carrier record)))) and (369/\$7 359/\$7).ccls. and (((light intensity) with distribution) same detect\$3 photo\$1detect\$3 photo\$1diode\$1)   | USPAT                           | 2004/02/11<br>18:22          |
| - |  | 9      | ((diffract\$3 phase) adj (grating structure)) same ((spherical wave\$1front "wave front") with (aberration deviation) with (correct\$4 reduc\$5 fix\$3 compensat\$4 balanc\$3)) and ((plural\$3 different two second\$3 dual) with (wave\$1length wave\$1lengths (wave adj length) laser ((light radiation) with (source emit\$4)) (disc disk ((storage record\$3 information) adj2 (medium carrier record)))) and (369/\$7 359/\$7).ccls. and (((light intensity) with distribution) same (detect\$3 photo\$1detect\$3 photo\$1diode\$1)) | USPAT                           | 2004/02/11<br>18:30          |

|   |      |  |   |                     |
|---|------|--|---|---------------------|
| - | 1401 | ((plural\$3 different two second\$3 dual) with (wave\$1length wave\$1lengths (wave adj length) laser ((light radiation) with (source emit\$4)) (disc disk ((storage record\$3 information) adj2 (medium carrier record)))) and (369/\$7 359/\$7).ccls. and (((light intensity) with distribution) same (detect\$3 photo\$1detect\$3 photo\$1diode\$1))   | USPAT   | 2004/02/11<br>18:32 |
| - | 1214 | ((plural\$3 different two second\$3 dual) with (wave\$1length wave\$1lengths (wave adj length) laser ((light radiation) with (source emit\$4))) and (369/\$7 359/\$7).ccls. and (((light intensity) with distribution) same (detect\$3 photo\$1detect\$3 photo\$1diode\$1))  | USPAT   | 2004/02/11<br>18:34 |
| - | 105  | ((plural\$3 different two second\$3 dual) with (wave\$1length wave\$1lengths (wave adj length) laser ((light radiation) with (source emit\$4))) and (369/\$7 359/\$7).ccls. and (((light intensity) with distribution) same (detect\$3 photo\$1detect\$3 photo\$1diode\$1)) ) and ((light intensity) with distribution with (middle central inner))  | USPAT   | 2004/02/11<br>18:37 |
| - | 80   | ((((plural\$3 different two second\$3 dual) with (wave\$1length wave\$1lengths (wave adj length) laser ((light radiation) with (source emit\$4))) and (369/\$7 359/\$7).ccls. and (((light intensity) with distribution) same (detect\$3 photo\$1detect\$3 photo\$1diode\$1)) ) and ((light intensity) with distribution with (middle central inner))) and 369/\$7.ccls.                                 | USPAT   | 2004/02/12<br>09:56 |
| - | 15   | ((((plural\$3 different two second\$3 dual) with (wave\$1length wave\$1lengths (wave adj length) laser ((light radiation) with (source emit\$4))) and (369/\$7 359/\$7).ccls. and (((light intensity) with distribution) same (detect\$3 photo\$1detect\$3 photo\$1diode\$1)) ) and ((light intensity) with distribution with (middle central inner))) and 369/\$7.ccls. and (spherical with aberration) | USPAT   | 2004/02/12<br>09:56 |
| - | 3735 | (DeVries).in and (optical adj head) and "globally approximates"  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2004/02/12<br>10:15 |
| - | 2    | 369/\$7.ccls. and "globally approximates"  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2004/02/12<br>10:16 |
| - | 256  | philips.as. and "spherical aberration"   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2004/02/12<br>10:17 |
| - | 165  | philips.as. and ("spherical aberration" with (reduc\$4 eliminat\$4 compensat\$4 correct\$4))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2004/02/12<br>10:18 |
| - | 37   | philips.as. and ("spherical aberration" with (reduc\$4 eliminat\$4 compensat\$4 correct\$4)) and ((phase diffract\$3) with (grating structure))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2004/02/12<br>10:18 |
| - | 58   | yoo-jang-hoon.in.  | USPAT   | 2004/02/12<br>15:55 |

|   |    |  |       |                     |
|---|----|--|-------|---------------------|
| - | 31 | yoo-jang-hoon.in. and ((spherical<br>wave\$1front) with (aberration deviation))<br>("4695158"   "5003521"   "5671203"  <br>"5684773"   "5701288"   "5708638"  <br>"5710749"   "5724325"   "5734637"  <br>"5748597"   "5757742"   "5757744"  <br>"5757745"   "5787062"   "5808993").PN. | USPAT | 2004/02/12<br>17:28 |
| - | 15 |  | USPAT | 2004/02/12<br>17:51 |
| - | 1  | 6016293.URPN.  | USPAT | 2004/02/12<br>17:53 |
| - | 4  | 6091691.URPN.  | USPAT | 2004/02/12<br>17:54 |